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Collected and Composed by Bilal Farooq (bilal.zaheem@gmail.com)

# NUMERICAL ANALYSIS
## Paper Final Term (Held: 25th Feb 2010)

<table>
<tr><th>No.</th><th>Questions</th><th>Mks</th></tr>
<tr><td>1</td><td>Find value of given data by Adam Moultan's method</td><td>10</td></tr>
<tr><td>2</td><td>Find value of given data by Dividend Difference Composite method</td><td>10</td></tr>
<tr><td>3</td><td>Draw backward difference tables for given Data
<table>
<tr><td>x</td><td></td><td></td><td></td></tr>
<tr><td>y</td><td></td><td></td><td></td></tr>
</table>
<table>
<tr><td>x</td><td></td><td></td><td></td></tr>
<tr><td>y</td><td></td><td></td><td></td></tr>
</table></td><td>5+5</td></tr>
<tr><td>4</td><td>Write Simpson's 1/3 formula</td><td>2</td></tr>
<tr><td>5</td><td>Find value by Euler's Method</td><td>3</td></tr>
<tr><td>6</td><td>Find value of K1 by 2nd Order R-K method</td><td>2</td></tr>
<tr><td>7</td><td>Convergence is used when ----------</td><td>1</td></tr>
<tr><td>8</td><td>Bisection method is …….. method<br>• Bracketing Method<br>• Open<br>• Random<br>• none<br>http://vustudents.ning.com/</td><td>1</td></tr>
<tr><td>9</td><td>Newton Raphson method is …….. method<br>• Bracketing Method<br>• Open<br>• Random<br>• none</td><td>1</td></tr>
<tr><td>10</td><td>Eigenvalue is<br>• Real<br>• Vector<br>• odd<br>• even</td><td>1</td></tr>
<tr><td>11</td><td>Find value of y'(1) by Euler's Method taking h=1</td><td>2</td></tr>
<tr><td>12</td><td>Find value of y'(3) from given table.
<table>
<tr><td>x</td><td></td><td></td><td></td></tr>
<tr><td>y</td><td></td><td></td><td></td></tr>
</table></td><td>2</td></tr>
</table>

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<table>
<tr><td>13</td><td>Find value of y′(0.3) by Lagrange's Method<br><table><tr><td>x</td><td></td><td></td><td></td></tr><tr><td>y</td><td></td><td></td><td></td></tr></table></td><td>3</td></tr>
<tr><td>14</td><td>For Simpson's 1/3 rule no.of intervals must be<ul><li>1</li><li>3</li><li>5</li><li>8</li></ul></td><td>1</td></tr>
<tr><td>15</td><td>For Simpson's 1/3 rule valid no.of intervals are<ul><li>1</li><li>3</li><li>5</li><li>8</li></ul></td><td>1</td></tr>
<tr><td>16</td><td>For Simpson's 3/8 rule no.of intervals must be<ul><li>10</li><li>11</li><li>12</li><li>14</li></ul>http://vustudents.ning.com/</td><td>1</td></tr>
<tr><td>17</td><td>Find the value of y′(1) from given forward difference table<br><table><tr><td>x</td><td>y</td><td>$\Delta y$</td><td>$\Delta y^2$</td><td>$\Delta y^3$</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table></td><td>2</td></tr>
</table>

**One 5 mark question was from Newton's rapson method**

**One 10 mark question was from lecture 11 page 69 examples**